

ITEM FOR ENVIRONMENTAL COMMISSION AGENDA

COMMISSION MEETING

April 15, 2020

DATE:

NAME & NUMBER OF

Water Oak Apartments

PROJECT:

SP-2019-0109C

NAME OF APPLICANT OR

Gemsong Ryan Jones Carter

ORGANIZATION:

LOCATION:

12125 S IH 35, Austin, TX 78747

COUNCIL DISTRICT:

District 5

ENVIRONMENTAL REVIEW STAFF:

Pamela Abee-Taulli, Environmental Review Specialist Senior,

Development Services Department, 512-974-1879

WATERSHED:

Onion Creek Watershed, Suburban Classification, Desired Development

Zone

REQUEST:

Variance request is as follows:

1. Request to vary from LDC 25-8-341 to allow cut in excess of 4 feet

on slopes exceeding 15 percent.

STAFF

Staff recommends this variance with conditions, having determined the findings of fact to have been met.

RECOMMENDATION:

STAFF

CONDITIONS:

1. Stockpile and reserve topsoil for use in revegetation of disturbed areas.

2. Revegetate disturbed areas adjacent to creek and pond with riparian

plantings per 609S.6.

3. Use enhanced erosion & sedimentation controls during construction to

prevent outflow of sediment-laden water from pond.



Development Services Department Staff Recommendations Concerning Required Findings

Project Name: Water Oak Apartments

Ordinance Standard: Watershed Protection Ordinance

Variance Request: Request to vary from LDC 25-8-341 to allow cut in excess of 4 feet,

to 13 feet, on slopes exceeding 15 percent.

Include an explanation with each applicable finding of fact.

A. Land Use Commission variance determinations from Chapter 25-8-41 of the City Code:

1. The requirement will deprive the applicant of a privilege available to owners of similarly situated property with approximately contemporaneous development subject to similar code requirements.

Yes The site slopes toward the middle, from east and west, toward an unclassified creek (drainage area less than 64 acres) that bisects the lot (see Applicant Exhibit 4 for topography). With a gross site area of 21.4 acres, 1.6 acres have slopes between 15 and 25 percent, 0.5 acres have slopes from 25 to 35 percent, and 0.04 acres have slopes over 35 percent. The steepest slopes are at the north, downstream end of the creek. This is also the best location for the detention pond, since it is the lowest point of the site.

Developers of similarly situated properties have been allowed to grade over 4 feet for ponds located on steep slopes.

2. The variance:

 Is not necessitated by the scale, layout, construction method, or other design decision made by the applicant, unless the design decision provides greater overall environmental protection than is achievable without the variance;

Yes The variance is not necessitated by the layout. The steepest slopes are located in the most logical location for stormwater detention.

b) Is the minimum deviation from the code requirement necessary to allow a reasonable use of the property;

Yes The variance is minimum deviation. The pond volume has been minimized by use of rain gardens to treat the entire water

quality volume. The pond shape has been designed to maximize tree protection.

c) Does not create a significant probability of harmful environmental consequences.

Yes The variance does not create a significant probability of harmful environmental consequences. Erosion and sedimentation controls have been designed to prevent runoff during construction and post-development runoff is required to match pre-development.

3. Development with the variance will result in water quality that is at least equal to the water quality achievable without the variance.

Yes The variance will not adversely affect water quality.

- B. The Land Use Commission may grant a variance from a requirement of Section 25-8-422 (Water Supply Suburban Water Quality Transition Zone), Section 25-8-452 (Water Supply Rural Water Quality Transition Zone), Section 25-8-482 (Barton Springs Zone Water Quality Transition Zone), Section 25-8-368 (Restrictions on Development Impacting Lake Austin, Lady Bird Lake, and Lake Walter E. Long), or Article 7, Division 1 (Critical Water Quality Zone Restrictions), after determining that::
 - 1. The criteria for granting a variance in Subsection (A) are met;

NA

2. The requirement for which a variance is requested prevents a reasonable, economic use of the entire property;

NA

3. The variance is the minimum deviation from the code requirement necessary to allow a reasonable, economic use of the entire property.

NA

<u>Staff Determination</u>: Staff determines that the findings of fact have been met. Staff recommends the following conditions:

- 1. Stockpile and reserve topsoil for use in revegetation of disturbed areas.
- 2. Revegetate disturbed areas adjacent to creek and pond with riparian plantings per 609S.6.
- 3. Use enhanced erosion & sedimentation controls during construction to prevent outflow of sediment-laden water from pond.

Environmental Reviewer	Tamle Aberaulli	3/30/20	
(DSD)	(Pamela Abee-Taulli)	Date	_

	Mel	
Environmental Review		3/30/20
Manager (DSD)	(Mike McDougal)	Date
Environmental Officer (WPD)	(Chris Herrington)	4/02/2020 Date



ENVIRONMENTAL COMMISSION VARIANCE APPLICATION FORM

PROJECT DESCRIPTION	
Applicant Contact Info	ormation
Name of Applicant	Gemsong N. Ryan, P.E.
Street Address	3100 Alvin Devane Blvd Suite 150
City State ZIP Code	Austin, Texas 78741
Work Phone	512-685-5131
E-Mail Address	gryan@jonescarter.com
Variance Case Information	
Case Name	Water Oak Apartments
Case Number	SP-2019-0109C
Address or Location	12125 S IH 35 SVRD
Environmental Reviewer Name	Pamela Abee-Taulli
Environmental Resource Management Reviewer Name	N/A
Applicable Ordinance	Watershed Protection Ordinance
Watershed Name	Onion Creek
Watershed Classification	☐ Urban ☑ Suburban ☐ Water Supply Suburban ☐ Water Supply Rural ☐ Barton Springs Zone

Edwards Aquifer Recharge Zone	 □ Barton Springs Segment □ Northern Edwards Segment ☑ Not in Edwards Aquifer Zones
Edwards Aquifer Contributing Zone	☐ Yes ☑ No
Distance to Nearest Classified Waterway	Approx. 1200 LF
Water and Waste Water service to be provided by	Austin Water Utility
Request	The variance request is as follows (Cite code references): A variance is requested from LDC 25-8—341 (A)(4)(C) to cut greater than 4 feet on a 15% or greater slope.

Impervious cover	Existing	Proposed
square footage:	0	320,340
acreage:	0	
percentage:	0%	41.8%
Provide general		

Provide general description of the property (slope range, elevation range, summary of vegetation / trees, summary of the geology, CWQZ, WQTZ, CEFs, floodplain, heritage trees, any other notable or outstanding characteristics of the property)

The existing topography of the subject tract consists of natural slopes ranging from 1%-20%. The site contains portions that are in excess of 15% slope. The highest point of the site is located along the southern boundary at an elevation of 722 feet above sea level. The lowest point of the site is located at the northeastern corner of the site at an elevation of approximately 663 feet above sea level. The site is currently undeveloped. There is a small swale in the center of the Water Oak Apartments site plan. The site is currently undeveloped as pasture with brush and trees. According to the Natural Resource Conservation Soil Survey of Travis County, Texas, soils on the property are classified in 99.9% in Hydrologic Soil Group D and 0.1% in Hydrologic Soil Group D. The soils are predominantly Brackett-Rock outcrop complex, with 1-12% slopes and Heiden clay, with 5-8% slopes. The site is located in the Onion Creek Watershed which is classified as a suburban watershed. There are several heritage trees on site, but the only one being removed has been classified as dead by an arborist.

Clearly indicate in what way the proposed project does not comply with current Code (include maps and exhibits)

More than 4 feet of cut on slopes greater than 15% is required to utilize a portion of an existing drainage swale as a detention pond. The additional cut is necessary to avoid excessive cut/fill in other locations because the detention pond is located at the existing low point of the site.

FINDINGS OF FACT

As required in LDC Section 25-8-41, in order to grant a variance the Land Use Commission must make the following findings of fact:

Include an explanation with each applicable finding of fact.

Project: Water Oak Apartments

Ordinance: LDC 25-8-341 (A)(4)(C)

- A. Land Use Commission variance determinations from Chapter 25-8-41 of the City Code:
 - The requirement will deprive the applicant of a privilege available to owners of similarly situated property with approximately contemporaneous development subject to similar code requirements.

Yes / No

The only possible location for an appropriately sized detention pond for this project is in the proposed location. This site would not be permittable without detention.

- The variance:
 - Is not necessitated by the scale, layout, construction method, or other design decision made by the applicant, unless the design decision provides greater overall environmental protection than is achievable without the variance;

Yes / No We are using the natural lowest spot on the site while saving as many protected trees as possible and not removing any heritage trees.

 Is the minimum deviation from the code requirement necessary to allow a reasonable use of the property; Yes / No We are only requesting cut over 4 feet on 15% or greater slopes on 0.18 acres of area.

 Does not create a significant probability of harmful environmental consequences.

Yes / No We will have retaining walls to avoid cutting into more areas upstream and on the side slopes of the pond.

3. Development with the variance will result in water quality that is at least equal to the water quality achievable without the variance.

Yes / No Water quality is provided upstream of the detention pond.

- B. Additional Land Use Commission variance determinations for a requirement of Section 25-8-422 (Water Quality Transition Zone), Section 25-8-452 (Water Quality Transition Zone), Article 7, Division 1 (Critical Water Quality Zone Restrictions), or Section 25-8-368 (Restrictions on Development Impacting Lake Austin, Lady Bird Lake, and Lake Walter E. Long):
 - 1. The criteria for granting a variance in Subsection (A) are met;

Yes / No N/A

2. The requirement for which a variance is requested prevents a reasonable, economic use of the entire property;

Yes / No N/A

3. The variance is the minimum deviation from the code requirement necessary to allow a reasonable, economic use of the entire property.

Yes / No N/A

^{**}Variance approval requires all above affirmative findings.



3100 Alvin Devane Boulevard, Suite 150 Austin, Texas 78741-7425 Tel: 512.441.9493

Fax: 512.445.2286 www.jonescarter.com

December 8, 2016

Pamela Abee-Tualli, LEED, CPESC COA Development Services Department One Texas Center 505 Barton Springs Road Austin, Texas 78705

Re:

Cut Variance

Water Oak Apartments 12125 S IH 35 Svrd SP-2019-0109C

Dear Ms. Abee-Taulli:

On behalf of our client, Three Hills Land LLC, Jones & Carter, Inc. is requesting an Environmental Commission variance of LDC Section 25-8-341(A)(4)(C) from the greater than 4-foot cut restriction on slopes over 15%.

The site plan consists of 17.599 acres including 14 multi-family buildings and a clubhouse with surface parking and associated improvements. The entire project proposes 41.8% impervious cover with 60% allowed by watershed. In order to locate the detention pond at the lowest portion of the site as well as size it correctly for the Atlas 14 100-year storm event, we will need to cut to a maximum of 13 feet on 0.18 acres over 15%. The placement of the pond at this location of the project will minimize site disturbance and the depth of cut needed at other locations outside of the 15% slope zone. The pond is for in-line detention only as the water quality is proposed in a series of rain gardens to avoid any additional cut in the 15% slope zone. The pond was also shaped to avoid heritage trees and as many protected trees as possible.

If you have any questions or require additional information, please contact me at (512) 441-9493.

Sincerely,

Memory Ryan
Gemsong N. Ryan, P.E.

EXHIBITS

OVERALL AERIAL VIEW	EXHIBIT 1
SITE PHOTOS	EXHIBIT 2
CONTEXT MAP	EXHIBIT 3
EXISTING TOPOGRAPHY AND TREE MAP	EXHIBIT 4
CUT-FILL MAP	EXHIBIT 5
SITE PLAN	EXHIBIT 6
ENVIRONMENTAL MAP	EXHIBIT 7
ENVRIONMENTAL RESOURCE INVENTORY	FXHIRIT 8

EXHIBIT 1 OVERALL AERIAL VIEW

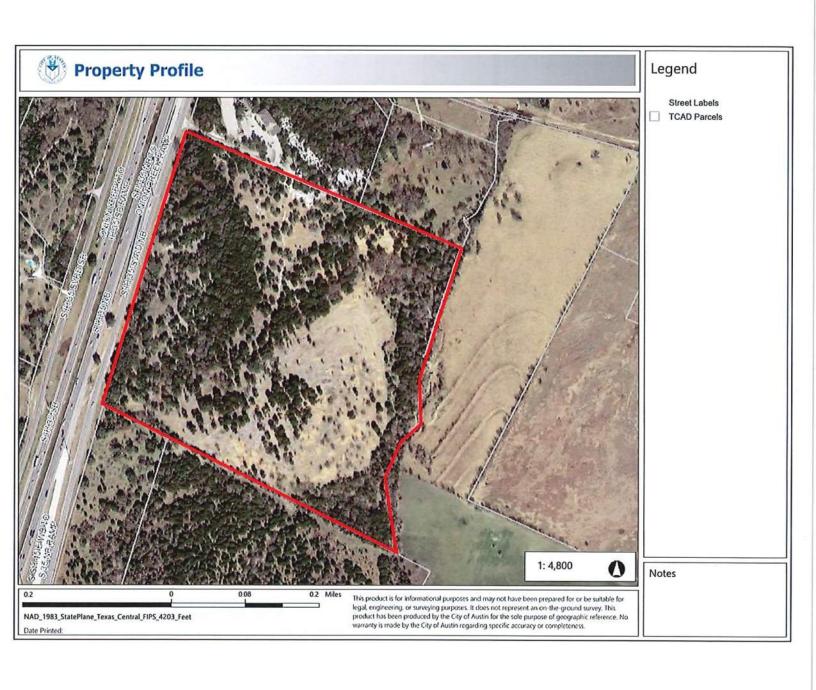


EXHIBIT 2 SITE PHOTOS





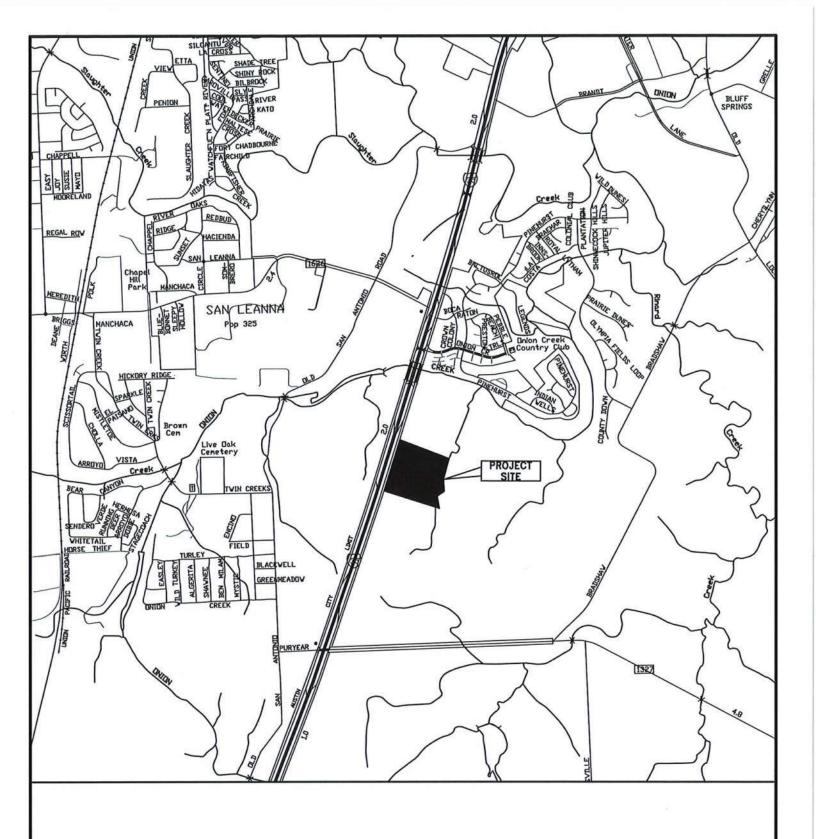








EXHIBIT 3 CONTEXT MAP



SITE LOCATION MAP

12525 S IH 35 Austin, TX

 SCALE:
 NTS
 DGN. BY:
 NZ

 DATE:
 03/08/2019
 DWN. BY:
 NZ

 JOB NO.
 0AB36-0006-00
 DWG. NO.
 —

 SUBMITTED:
 —
 SURV. BY:
 —

 F.B. NO.
 —
 —



JONES CARTER

Texas Board of Professional Engineering Firm Registration No. F-439 3100 Alvin Devane Bivd., Suite 150 · Austin, Texas 78741 · 512.441.9493 SHEET NO. 1 of 1

EXHIBIT 4 EXISTING TOPOGRAPHIC AND TREE MAP

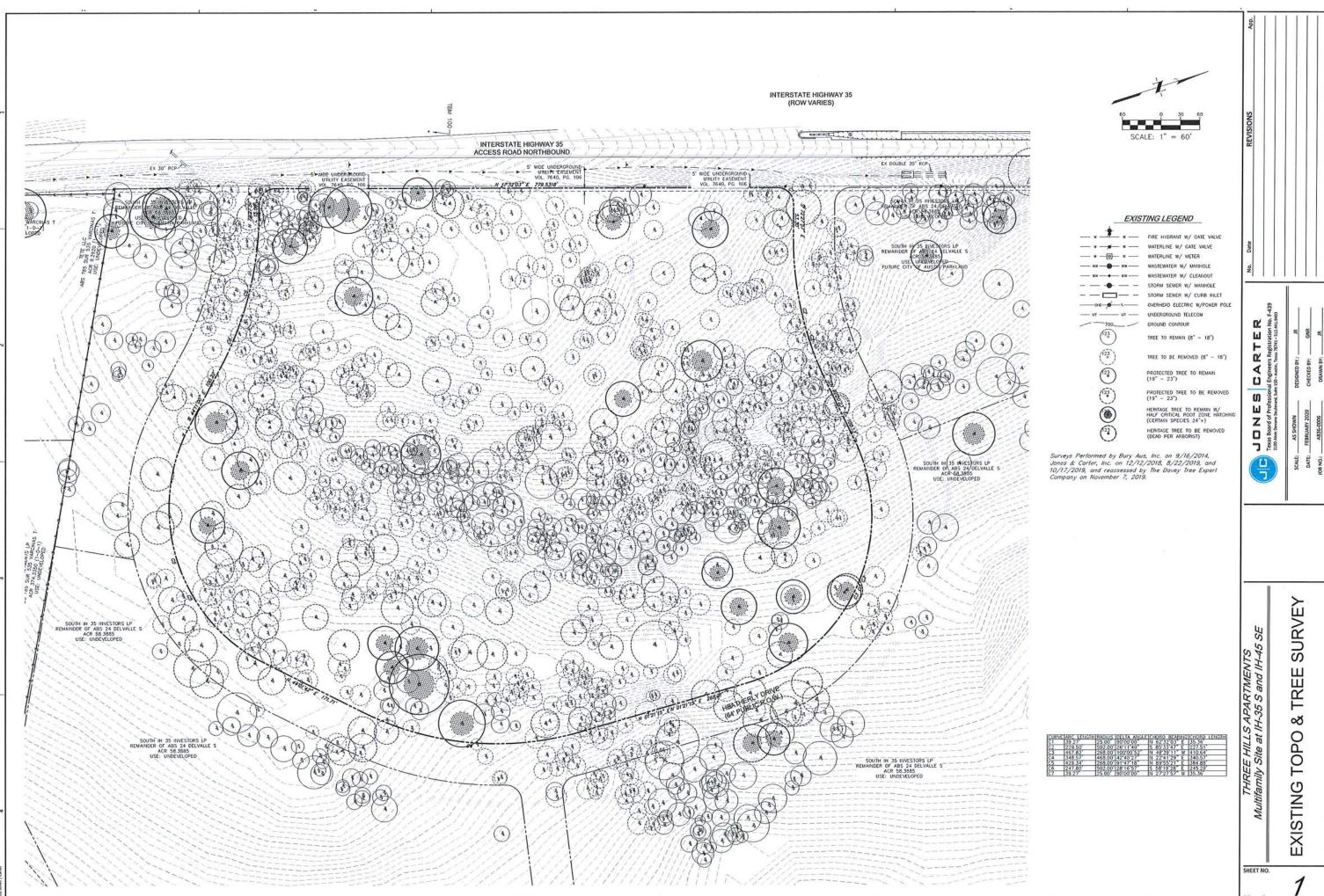


EXHIBIT 5 CUT-FILL MAP

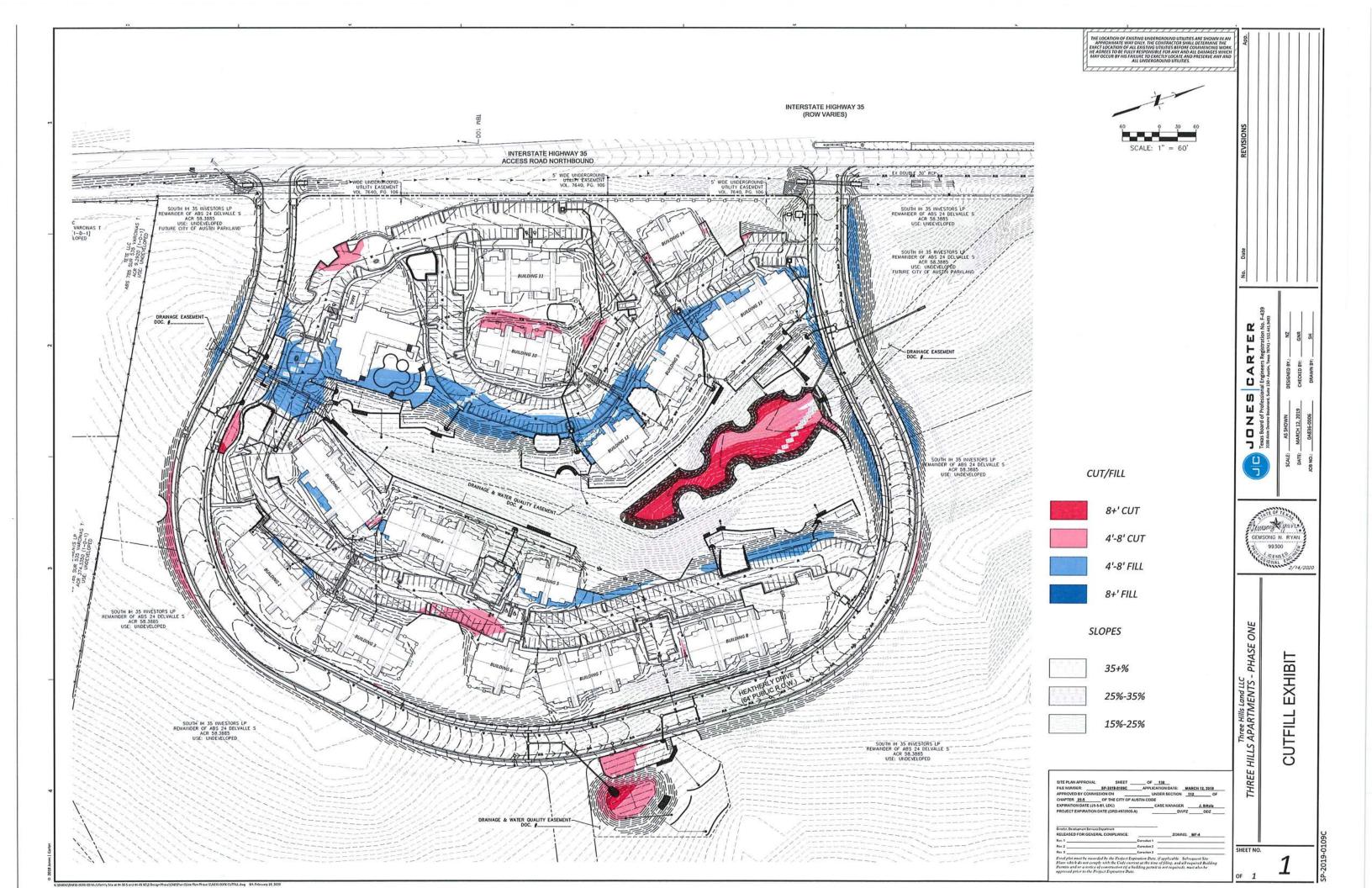


EXHIBIT 6 SITE PLAN

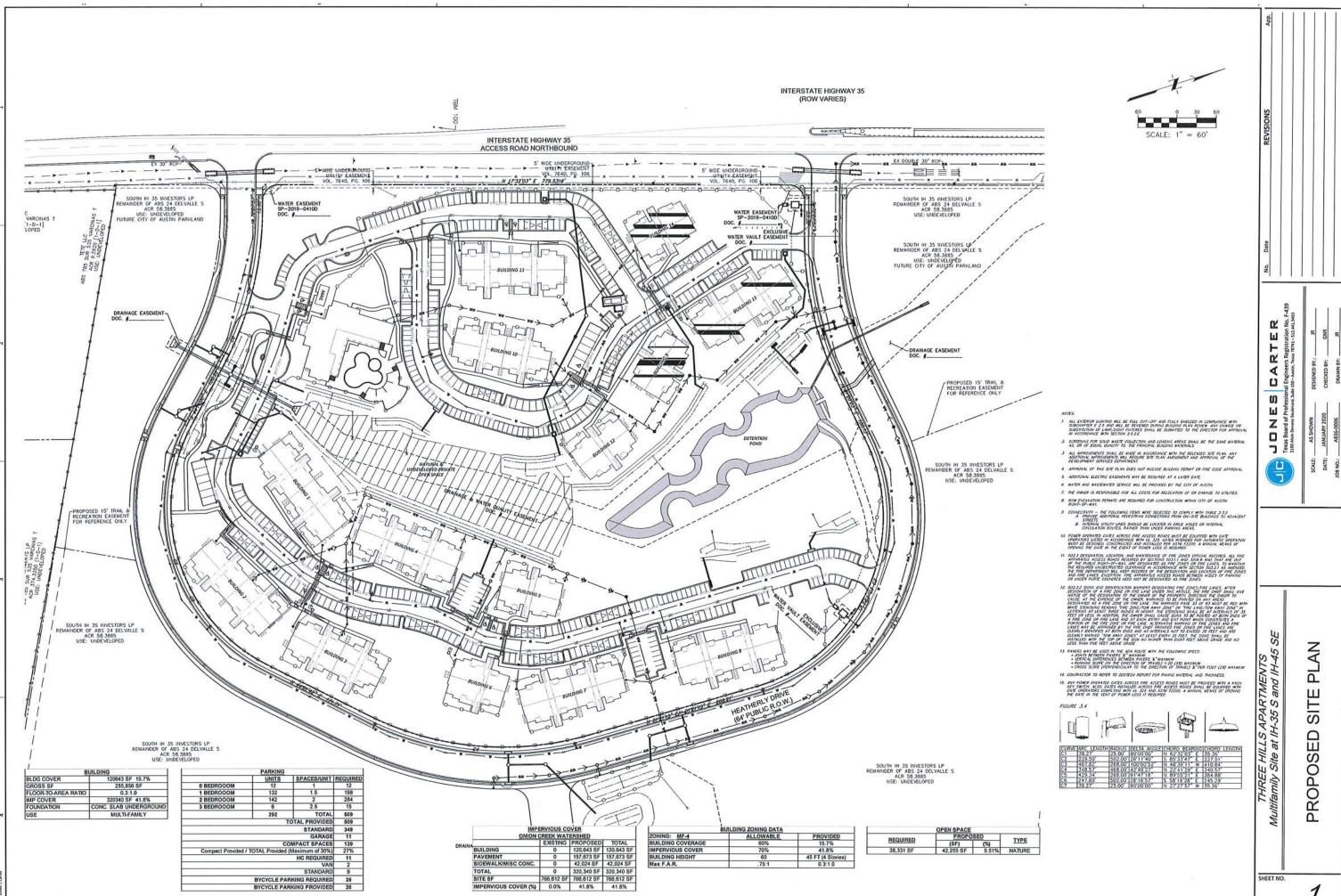


EXHIBIT 7 ENVIRONMENTAL MAP

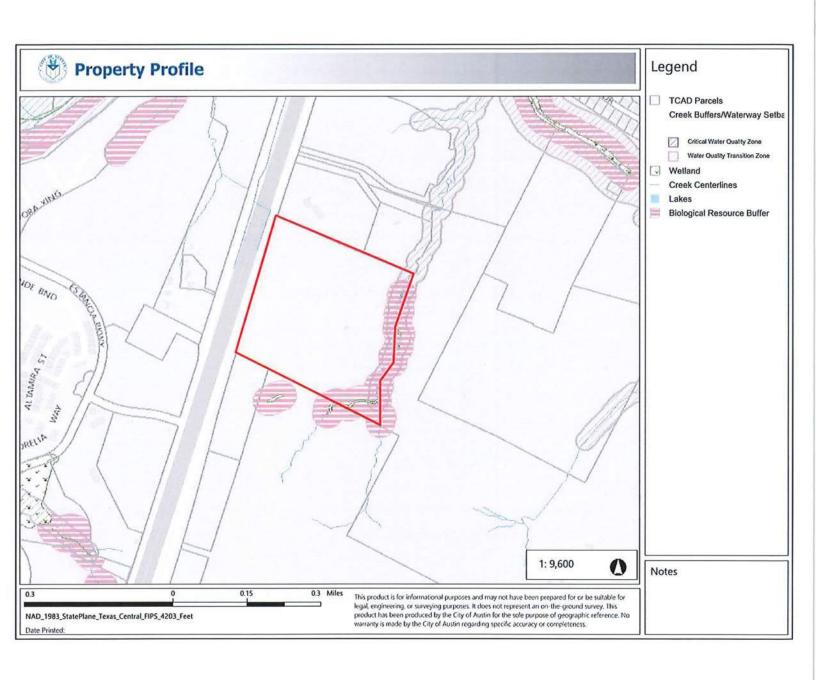


EXHIBIT 8 ENVIRONMENTAL RESOURCE INVENTORY

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- 1	Case	No.:										
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### **Environmental Resource Inventory**

For the City of Austin
Related to LDC 25-8-121, City Code 30-5-121, ECM 1.3.0 & 1.10.0

The ERI is required for projects that meet one or more of the criteria listed in LDC 25-8-121(A), City Code 30-5-121(A). 1. SITE/PROJECT NAME: 12001 S IH-35 Tract 2. COUNTY APPRAISAL DISTRICT PROPERTY ID (#'s): 352002 3. ADDRESS/LOCATION OF PROJECT: 12001 S IH-35 4. WATERSHED: Onion Creek 5. THIS SITE IS WITHIN THE (Check all that apply) Edwards Aquifer Recharge Zone* (See note below) .................□YES ☑No Edwards Aquifer Contributing Zone*...... □YES ☑No Edwards Aquifer 1500 ft Verification Zone* ...... □YES ☑No Note: If the property is over the Edwards Aquifer Recharge zone, the Hydrogeologic Report and karst surveys must be completed and signed by a Professional Geoscientist Licensed in the State of Texas. 6. DOES THIS PROJECT PROPOSE FLOODPLAIN MODIFICATION?......□YES** ☑NO If yes, then check all that apply: (1) The floodplain modifications proposed are necessary to protect the public health and safety; (2) The floodplain modifications proposed would provide a significant, demonstrable environmental benefit, as determined by a functional assessment of floodplain health as prescribed by the Environmental Criteria Manual (ECM), or (3) The floodplain modifications proposed are necessary for development allowed in the critical water quality zone under LDC 25-8-261 or 25-8-262, City Code 30-5-261 or 30-5-262. (4) The floodplain modifications proposed are outside of the Critical Water Quality Zone in an area determined to be in poor or fair condition by a functional assessment of floodplain health. ** If yes, then a functional assessment must be completed and attached to the ERI (see ECM 1.7 and Appendix X for forms and guidance) unless conditions 1 or 3 above apply. 7. IF THE SITE IS WITHIN AN URBAN OR SUBURBAN WATERSHED, DOES THIS PROJECT PROPOSE A UTILITY LINE PARALLEL TO AND WITHIN THE CRITICAL WATER QUALITY ZONE? ......□YES*** ☑NO ***if yes, then riparian restoration is required by LDC 25-8-261(E) or City Code 30-5-261(E) and a functional assessment must be completed and attached to the ERI (see ECM1.5 and Appendix X for forms and guidance). 8. There is a total of 9 (#'s) Critical Environmental Feature(s)(CEFs) on or within 150 feet of the project site. If CEF(s) are present, attach a detailed **DESCRIPTION** of the CEF(s), color PHOTOGRAPHS, the CEF WORKSHEET and provide DESCRIPTIONS of the proposed CEF buffer(s) and/or wetland mitigation. Provide the number of each type of CEFs on or

within 150 feet of the site (Please provide the number of CEFs ):

_0_	(#'s) Spring(s)/Seep(s)	(#'s) Point Recharge Feature(s)	(#'s) Bluff(s)
_0_	(#'s) Canyon Rimrock(s)	(#'s) Wetland(s)	

Note: Standard buffers for CEFs are 150 feet, with a maximum of 300 feet for point recharge features. Except for wetlands, if the standard buffer is <u>not provided</u>, you must provide a written request for an administrative variance from LDC 25-8-281(C)(1) and provide written findings of fact to support your request. Request forms for administrative variances from requirements stated in LDC 25-8-281 are available from Watershed Protection Department.

9. The following site maps are attached at the end of this report (Check all that apply and provide):

### All ERI reports must include:

- ☑ Site Specific Geologic Map with 2-ft Topography
- ☑ Historic Aerial Photo of the Site
- ☑ Site Soil Map
- ☑ Critical Environmental Features and Well Location Map on current Aerial Photo with 2-ft Topography

### Only if present on site (Maps can be combined):

- ☐ Edwards Aquifer Recharge Zone with the 1500-ft Verification Zone (Only if site is over or within 1500 feet the recharge zone)
- □ Edwards Aquifer Contributing Zone
- ☐ Water Quality Transition Zone (WQTZ)
- ☑ Critical Water Quality Zone (CWQZ)
- ☐ City of Austin Fully Developed Floodplains for all water courses with up to 64-acres of drainage
- 10. **HYDROGEOLOGIC REPORT** Provide a description of site soils, topography, and site specific geology below (Attach additional sheets if needed):

**Surface Soils** on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups*. If there is more than one soil unit on the project site, show each soil unit on the site soils map.

Soil Series Unit Names, Infiltration Characteristics & Thickness				
Soil Series Unit Name & Group* Thic				
Brackett-Rock outcrop complex, 1-12% slopes (BID)	С	0 to 4.0		
Eddy gravelly loam, 0-3% slopes (EdB)	С	0.5 to 1.25		
Eddy gravelly loam, 3-6% slopes (EdC)	С	0.5 to 1.25		
Ferris-Heiden complex, 8-20% slopes, severely eroded (FhF3	D	>5		
Heiden clay, 5-8% slopes, moderately eroded (HeD2)	D	>5		

#### *Soil Hydrologic Groups Definitions (Abbreviated)

- A. Soils having a <u>high infiltration</u> rate when thoroughly wetted.
- B. Soils having a moderate infiltration rate when thoroughly wetted.
- C. Soils having a <u>slow infiltration</u> rate when thoroughly wetted.
- D. Soils having a <u>very slow</u> <u>infiltration</u> rate when thoroughly wetted.
- **Subgroup Classification See Classification of Soil Series Table in County Soil Survey.

WPD ERM ERI-2014-01 Page 2 of 6

Description of Site Topography Topographically, the subject site rang (COA, 2015 and USGS, 1988). Surfa east, typically by overland sheet flow was observed along the eastern bour site drains from south to north toward IH-35.	les from approximately 616 to 722 ace water flow on the majority of the toward an unnamed tributary of Or ndary of the subject site. The north	feet above mean sea level e subject site flows from west to nion Creek (USGS, 1988), which western portion of the subject
List surface geologic units belo	ow:	
Ge	eologic Units Exposed at Surfac	e
Group	Formation	Member
•	Ozan Formation (Ko)	
	Pecan Gap Chalk (Kpg)	
	Austin Chalk (Kau)	
Brief description of site geolog  The Ozan Formation (Ko) is describe montmorillonitic, some glauconite, phof silt-size quartz and calcite fragmen fracture, light gray to brown; weathers thickness 600+ feet." The Pecan Gato chalky marl with microgranular calcingray; weathers light gray and white; to "Chalk and marl; chalk mostly microgprisms, averages about 85 percent calcing with marl, bentonitic seams locally rethickness 325 to 420 feet (UT-BEG, 2015).	d as "Clay, marly, calcareous controsphate pellets, and hematite and its, become more abundant upwards light gray to grayish orange and vp Chalk (Kpg) is described as "Chabite in clay matrix, well-rounded quickness about 200 feet." The Austranular calcite with minor Foraminialcium carbonate, ledge forming, groessive, medium gray; pyrite nodul	tent decreases upward, pyrite nodules, variable amount d, blocky with conchoidal white, develops poor fissility; alk in lower part grading upward artz grains in lower part, medium stin Chalk (Kau) is described as fera tests and Inoceramus rayish white to white; alternates
Wells – Identify all recorded and unplugged, capped and/or aband  There are _0_(#) wells present on(#'s)The wells are no	oned wells, etc.):	ns are shown and labeled
(#'s)The wells are no	ot in use and will be properly ab	andoned.
<del></del> , ,	use and comply with 16 TAC C	

WPD ERM ERI-2014-01 Page 3 of 6

There are 0 (#'s) wells that are off-site and within 150 feet of this site.

## 11. **THE VEGETATION REPORT** – Provide the information requested below:

ا 3rief description of site	plant communities	(Attach additional sheets if needed)	<b>)</b> :
-----------------------------	-------------------	--------------------------------------	------------

jetative cover. Clearing of understory vege	ostly wooded rangeland with a thick unders tation was observed on the southeastern p ved along the eastern portion of the subjec	ortior
There is woodland community on site		k one)
If yes, list the dominant species below		
Woodland	d species	
Common Name	Scientific Name	
Ashe juniper	Juniperus ashei	
plateau live oak	Quercus fusiformis	
saw greenbrier	Smilax bona-nox	
Queen Anne's lace	Daucus carota	
twistleaf yucca	Yucca rupicola	
There is grassland/prairie/savanna on If yes, list the dominant species below  Grassland/prairie		ne).
Common Name	Scientific Name	
There is hydrophytic vegetation on site	e	1e).

WPD ERM ERI-2014-01 Page 4 of 6

Hydro	phytic plant species	
Common Name	Scientific Name	Wetland Indicator Status
soft rush	Juncus sp.	OBL
common spike rush	Eleocharis palustris	OBL
☑YES ☐ NO (Check one).	ovide the information requested	below.
Wastewater for the site will I	be treated by (Check of that Apply):	
☐ On-site system(s)	·	
☐ City of Austin Centra	lized sewage collection system	
✓ Other Centralized co	llection system	
	or wastewater service from the Austin W Is must be registered with the City of At	
The site sewage collection sall State, County and City st  ☑YES ☐ NO (Check one).	system is designed and will be of andard specifications.	onstructed to in accordance t
Calculations of the size of the end of this report or should be a size of the		gation area(s) are attached
	sed within the Critical Water Qua yes, then provide justification be	

WPD ERM ERI-2014-01 Page 5 of 6

Is the project site is over the Edward $\square$ YES $\square$ NO (Check one).	ds Aquifer?
If yes, then describe the wastewate	er disposal systems proposed for the site, its treatment courses or the Edwards Aquifer.
13. One (1) hard copy and one (1) electroprovided.  Date(s) ERI Field Assessment was perform	onic copy of the completed assessment have been ned:
	Date(s) my knowledge, the responses on this form accurately
Rachel O'Leary	512-328-2430
Print Name	Telephone
Rachel Pileary	roleary@horizon-esi.com
Signature	Email Address
Horizon Environmental Services, Inc.	19 March 2019; revised 25 June 2019
Name of Company	Date
	r Recharge Zone, my signature and seal also certifies tist in the State of Texas as defined by ECM

1.12.3(A).

(3)(4) Soal

WPD ERM ERI-2014-01 Page 6 of 6

## City of Austin Environmental Resource Inventory - Critical Environmental Feature Worksheet

1	Project Name:	12001 S IH-35 Tract
2	Project Address:	
3	Site Visit Date:	15 March 2019
4	Environmental Resource Inventory Date:	19 March 2019

City of Austin Use Only

5	Primary Contact Name:	Rachel O'Leary
6	Phone Number:	512-328-2430
7	Prepared By:	Rachel O'Leary
8		roleary@horizon-esi.com

9	FEATURE TYPE {Wetland,Rimrock, Bluffs,Recharge Feature,Spring}	FEATURE ID (eg S-1)	FEATURE LONGITUDE (WGS 1984 in Meters)		FEATURE LATITUDE (WGS 1984 in Meters)		WETLAND DIMENSIONS (ft)		RIMROCK/BLUFF DIMENSIONS (ft)		RECHARGE FEATURE DIMENSIONS			Springs Est. Discharge
			coordinate	notation	coordinate	notation	х	Y	Length	Avg Height	X	Z	Trend	cfs
	Wetland	CEF-1	-97.795401	DD	30.127135	DD	3.5	27.5						
	Wetland	CEF-2	-97.795479	DD	30.126730	DD	6	6					-	
	Wetland	CEF-3	-97.795532	DD	30.126601	DD	3	12		100				
	Wetland	CEF-4	-97.795564	DD	30.126108	DD	-4	95						
	Wetland	CEF-5	-97.795572	DD	30.125589	DD	4	45	100					Billi
	Wetland	CEF-6	-97.795756	DD	30.125255	DD	5	53	1000					
	Wetland	CEF-7	-97.796262	DD	30.124458	DD	4	30		ALL HARD			123	
	Wetland	CEF-8	-97.797179	DD	30.123962	DD	650	20						
	Wetland	CEF-9	-97.796234	DD	30.123490	DD	4	78					100	
									E - 31				1-1-	
			-					100						PERM
		Name of the last							-				1	
			N-I	N COLL	the state of									
	THE RESERVE THE PERSON NAMED IN								-	-				-

For rimrock, locate the midpoint of the segment that describes the feature.

For wetlands, locate the approximate centroid of the feature and the estimated area.

For a spring or seep, locate the source of groundwater that feeds a pool or stream.

Please state the method of coordinate data collection and the approximate precision and accuracy of the points and the unit of measurement.

Method Accuracy

Professional Geologists apply seal below

Method Accuracy
GPS □ sub-meter
Surveyed □ meter

 Surveyed
 □
 meter
 □

 Other
 □
 > 1 meter
 □

WPD ERM ERI-CEF-01

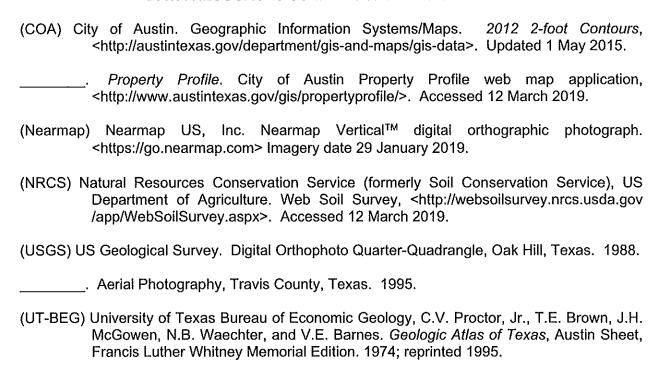


## **ENVIRONMENTAL RESOURCE INVENTORY ATTACHMENTS**

**12001 S IH-35 TRACT** HJN 190054.001ERI



#### DATA RESOURCES USED IN COMPLETING THIS ERI





## ERI WORKSHEET SECTION 8: CRITICAL ENVIRONMENTAL FEATURES

CEF Descriptions Descriptions of Proposed Buffers Color Photographs



#### **Critical Environmental Features**

CEFs observed on or within 150 feet from the subject site include:

Springs/Seeps:	0
Point Recharge Features:	0
Bluffs:	0
Canyon Rimrocks:	0
Wetlands:	9

Nine (9) potential wetland CEFs were observed on or within 150 feet of the subject site. An unnamed tributary of Onion Creek was observed along the eastern boundary of the subject site. The tributary contained patches of sparse wetland vegetation within the defined bed and bank (CEF-1 to CEF-9).

No other potential CEFs were identified on or within 150 feet of the subject site. CEF feature dimensions and locations are provided on the attached City of Austin CEF worksheet and map, and photographs are attached.

## **Proposed Buffers**

The City of Austin generally requires that 150-foot buffer zones be placed on all CEFs. However, the City may accept a reduced buffer along the entire water feature that supports intermittent pockets of wetland vegetation within the banks of the waterway as a viable option. Horizon recommends maintaining at least a 50-foot water quality buffer along the entire length of the unnamed tributary of Onion Creek by the subject site's eastern boundary.

If development is proposed within the CEF buffers, an administrative variance and approved wetland mitigation may be required.

# Horizon Environmental Services, Inc.



PHOTO 1 View of wetland CEF-1



PHOTO 3 View of wetland CEF-3



PHOTO 2 View of wetland CEF-2



PHOTO 4 View of wetland CEF-4

190054-001ERI Photos Revised

## Horizon Environmental Services, Inc.



PHOTO 5 Another view of wetland CEF-4



PHOTO 7 View along wetland CEF-8



PHOTO 6 View of wetland CEF-5



PHOTO 8 Another view along wetland CEF-8

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PHOTO 9
View of northwestern portion of the subject site, looking northwest toward a culvert under IH-35



PHOTO 11
Typical view of thick understory vegetation observed on the subject site



PHOTO 10 Typical view of the subject site



PHOTO 12
Typical view of the cleared areas on the southeastern portion of the subject site

190054-001ERI Photos Revised



## **ERI WORKSHEET SECTION 9:** SITE MAPS

- Figure 1. Site-Specific Geologic Map
- Figure 2. Historical Aerial Photo Figure 3. Site Soil Map
- Figure 4. Critical Environmental Features and Well Locations Map
- Figure 5. Water Quality Zone Map

